

90168



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NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA



For Supervisor's use only

Level 1 Biology, 2009

90168 Describe biological ideas relating to how humans use and are affected by micro-organisms

Credits: Two

9.30 am Wednesday 25 November 2009

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–7 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

For Assessor's use only		Achievement Criteria	
Achievement		Achievement with Merit	Achievement with Excellence
Describe biological ideas relating to how humans use and are affected by micro-organisms.	<input type="checkbox"/>	Explain biological ideas relating to how humans use and are affected by micro-organisms.	<input type="checkbox"/>
Overall Level of Performance		<input type="checkbox"/>	

QUESTION ONE: FERMENTATION

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing. There are no margins, text, or other markings on the page.

The graph below shows how the number of bacteria changes over time when raw chicken is left out on the bench.

You may use diagrams to support your answer

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

**Question Three is on
the following page.**

A student had not been feeling well so decided to go to the doctor. The doctor concluded that the student had the flu, a viral infection that needed to run its course. The student was advised to go home to bed and drink plenty of fluids. The doctor **did not** prescribe **antibiotics**.

In your answer:

- [illegible]

**Extra paper for continuation of answers if required.
Clearly number the question.**

Assessor's
use only

Question
number

[illegible]

